

ATTORNEY DOCKET NO.: 044481-5010-01 US

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NOVEL PURINERGIC**

the specification of which:

is attached hereto; or

was filed as United States application Serial No. 08/749,707 on November 15, 1995 and was amended on \_\_\_\_\_ (if applicable); or

was filed as PCT International application Number \_\_\_\_\_ on \_\_\_\_\_ and was amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:**

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefits under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

**U.S. PROVISIONAL APPLICATIONS**

U.S. PROVISIONAL APPLICATION NO.	U.S. FILING DATE
60/006,782	November 15, 1995

I hereby claim the benefit under Title 35, United States Code, §119(a)-(e) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. §120:**

U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
08/559,524	November 15, 1995		X	

PCT APPLICATIONS DESIGNATING THE U.S.			STATUS (Check One)		
PCT APPLN. NO.	PCT FILING DATE	U.S. SERIAL NO.	PATENTED	PENDING	ABANDONED

**POWER OF ATTORNEY:** as a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Morgan, Lewis & Bockius LLP**

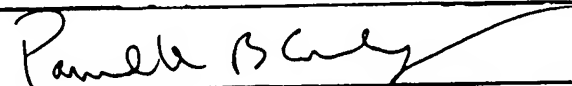
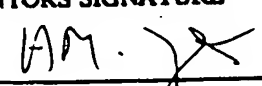
Robert J. Gaybrick, Reg. No. 27,890; Richard S. Meyer, Reg. No. 32,541; C. Scott Talbot, Reg. No. 34,262; Reid G. Adler, Reg. No. 30,988; J. Michael Thesz, Reg. No. 40,354; John G. Smith, Reg. No. 33,818; Song K. Jung, Reg. No. 35,210; Matthew T. Bailey, Reg. No. 33,829; Jeffrey A. Lindeman, Reg. No. 34,658; John D. Zele, Reg. No. 39,887; Mary Jane Boswell, Reg. No. 33,652; Michele V. Frank, Reg. No. 37,028; Michael P. Tierney, Reg. No. 35,388; Erin Harriman, Reg. No. 40,410; Robert J. Goodell, Reg. No. 41,040; K. Karen Loewenstein, Reg. No. 41,161; Michael S. Lee, Reg. No. 41,434; Howard R. Richman, Reg. No. 41,451; Paul A. Fournier, Reg. No. 41,023.

Direct Telephone Calls To:  
(name and telephone number)

Reid G. Adler  
202-467-7756

The undersigned hereby authorizes the registered practitioners of Morgan, Lewis & Bockius LLP to accept and follow instructions from \_\_\_\_\_ as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the registered practitioners of Morgan, Lewis & Bockius LLP will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR	Pamela B. Conley	
RESIDENCE & CITIZENSHIP	CITY AND STATE OR CITY AND FOREIGN COUNTRY 116 Lois Lane, Palo Alto, CA 94303	COUNTRY OF CITIZENSHIP U.S.A.
POST OFFICE ADDRESS	(same as above)	
FIRST OR SOLE INVENTOR'S SIGNATURE		DATE 6/22/98
FULL NAME OF SECOND INVENTOR	Hans-Michael JANTZEN	
RESIDENCE & CITIZENSHIP	CITY AND STATE OR CITY AND FOREIGN COUNTRY 350 Church Street, #H, San Francisco, CA 94114	COUNTRY OF CITIZENSHIP Germany
POST OFFICE ADDRESS	(same as above)	
SECOND INVENTORS SIGNATURE		DATE 6/24/98

Listing of Inventors Continued on attached page(s)    ☐ Yes    ☒ No

RECEIVED

MAY 13 1997

MORGAN, LEWIS & BOCKIUS LLP

MAY 07, 1997

MORGAN, LEWIS & BOCKIUS LLP  
REID G. ADLER  
1800 M STREET, N.W.  
WASHINGTON, D.C. 20036



PTAS

RG-A  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*100379931A\*

44481-5010-01

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/12/1997

REEL/FRAME: 8394/0986  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CONLEY, PAMELA B.

DOC DATE: 02/13/1997

ASSIGNOR:

JANTZEN, HANS-MICHAEL

DOC DATE: 02/13/1997

ASSIGNEE:

COR THERAPEUTICS, INC.  
256 EAST GRAND AVENUE  
SOUTH SAN FRANCISCO, CALIFORNIA  
94080

SERIAL NUMBER: 08749707  
PATENT NUMBER:

FILING DATE: 11/15/1996  
ISSUE DATE:

LAWAN FLETCHER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

PSB  
51227

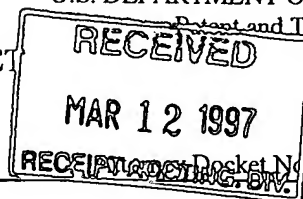
03-24-1997



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R SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



RECEIVED Docket No.: 044481-0000

To the Commissioner of Patents and Trademarks:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies): 3-12-97

Pamela B. CONLEY and Hans-Michael JANTZEN

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name:

COR Therapeutics, Inc.

Internal Address:

Street Address

256 East Grand Avenue

City: South San Francisco

State: California Zip: 94080

Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: February 13, 1997

4. Application number(s) or patent number(s): 08/749,707

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adler

Internal Address: Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.

City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account 13-4520

8. Deposit account number: 13-4520

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Reid G. Adler

Name of Person Signing

Reid G. Adler  
Signature

Total number of pages including cover sheet, attachments and documents: 5

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by Pamela B. CONLEY and Hans-Michael JANTZEN (hereinafter referred to as the assignors), residing at 116 Lois Lane, Palo Alto, California and 350 Church Street, #H, San Francisco, California respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in NOVEL PURINERGIC RECEPTOR, set forth in an application for Letters Patent of the United States, bearing Serial No. 08/749,707 and filed on November 15, 1996; and

WHEREAS, COR Therapeutics, Inc., a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 256 East Grand Avenue, South San Francisco, CA 94080 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

2-13-97

Date

Pamela B. Conley

Pamela B. CONLEY

2-13-97

Date

Hans-Michael Jantzen

Hans-Michael JANTZEN

STATE OF CALIFORNIA

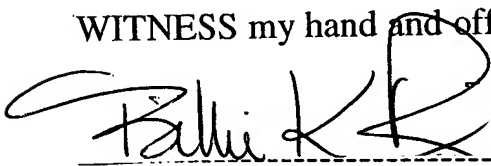
COUNTY OF SAN MATEO

On February 13, 1997 before me, **Billie Kaye Gavin,**  
DATE

personally appeared PAMELA B. CONLEY  
NAME(S) OF SIGNER(S)

☒ personally known to me -or- ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



STATE OF CALIFORNIA

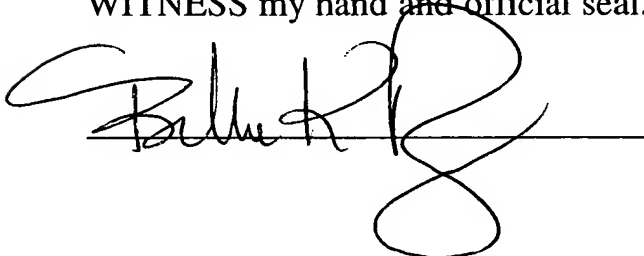
COUNTY OF SAN MATEO

On February 13, 1997 before me, **Billie Kaye Gavin,**  
DATE

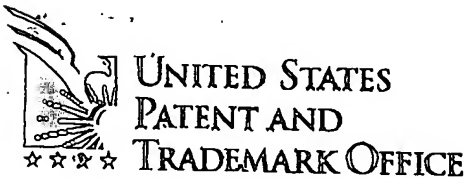
personally appeared HANS-MICHAEL JANTZEN  
NAME(S) OF SIGNER(S)

☒ personally known to me -or- ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.







MST  
PATRU

AUGUST 13, 2002

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

MORGAN, LEWIS & BOCKIUS LLP  
MICHAEL S. TUSCAN P.H.  
1111 PENNSYLVANIA AVE., NW  
WASHINGTON, D.C. 20004



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UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 06/10/2002

REEL/FRAME: 012977/0516  
NUMBER OF PAGES: 7

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
COR THERAPEUTICS, INC.

DOC DATE: 02/12/2002

ASSIGNEE:  
MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 07808329 44481-5002-01  
PATENT NUMBER:

FILING DATE: 12/16/1991  
ISSUE DATE:

mst/mst/RJS  
Abandoned

SERIAL NUMBER: 08477133 44481-5002-06  
PATENT NUMBER:

FILING DATE: 06/07/1995  
ISSUE DATE:

mst/mst/RJS  
Lapsed

SERIAL NUMBER: 093622074 44481-5002-14  
PATENT NUMBER:

FILING DATE: 07/28/1999  
ISSUE DATE:

mst/mst/RJS  
Abandoned

SERIAL NUMBER: 09671346 44481-5002-15  
PATENT NUMBER:

FILING DATE: 09/27/2000  
ISSUE DATE:

mst/mst/RJS

AUG 19 2002

MORGAN, LEWIS & BOCKIUS LLP

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By Saw Date 9/4/02

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PATENT NUMBER:		ISSUE DATE:	
SERIAL NUMBER: 08475262	44481-5004-02	FILING DATE: 06/07/1995	MST/MST/RJS
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SERIAL NUMBER: 09621004	44481-5004-04	FILING DATE: 07/20/2000	MST/MST/RJS
PATENT NUMBER:		ISSUE DATE:	
SERIAL NUMBER: 08390301	44481-5006-01	FILING DATE: 01/25/1995	MST/MST/RK
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SERIAL NUMBER: 10127691	44481-5006-09	FILING DATE: 04/23/2002	MST/MST/RK
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SERIAL NUMBER: 08975653	44481-5039-02	FILING DATE: 11/21/1997	MST/MST/RJS
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PATENT NUMBER:		ISSUE DATE:	
SERIAL NUMBER: 09745842	44481-5053	FILING DATE: 12/26/2000	MST/MST/EDL
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SERIAL NUMBER: 09500231		FILING DATE: 02/08/2000	
PATENT NUMBER:	44481-5015	ISSUE DATE:	Transfer to T+T+C
SERIAL NUMBER: 09664535		FILING DATE: 09/18/2000	--- T+T+C
PATENT NUMBER:	44481-5041-991	ISSUE DATE:	JAL/ECW/ECW
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SERIAL NUMBER: 09576637		FILING DATE: 05/24/2000	
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PATENT NUMBER:	44481-5046-01	ISSUE DATE:	Transferred to T+T+C

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PATENT NUMBER:	ISSUE DATE: to T+T+C
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PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09636804 44481-5050	FILING DATE: 08/10/2000 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
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PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09794214 44481-5051-01	FILING DATE: 02/28/2001 Transferred
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SERIAL NUMBER: 09773383 44481-5055	FILING DATE: 02/01/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
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PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09773373 44481-5057	FILING DATE: 02/01/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09773374 44481-5058	FILING DATE: 02/01/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09773375 44481-5059	FILING DATE: 02/01/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09775812 44481-5060	FILING DATE: 02/05/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C
SERIAL NUMBER: 09920325 44481-5060-01	FILING DATE: 08/02/2001 Transferred
PATENT NUMBER:	ISSUE DATE: to T+T+C

012977/0516 PAGE 5

SERIAL NUMBER: 09816782 44481-5062  
PATENT NUMBER:

FILING DATE: 03/26/2001 Transferred  
ISSUE DATE: TO TITC

SERIAL NUMBER: 09816771 44481-5063  
PATENT NUMBER:

FILING DATE: 03/26/2001 Transferred to  
ISSUE DATE: TITC

SERIAL NUMBER: 09816781 44481-5064  
PATENT NUMBER:

FILING DATE: 03/26/2001 Transferred to  
ISSUE DATE: TITC

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



06-14-2002

FORM PTO-1595  
(Rev. 6-93)RECORDATION FORM COVER SHEET  
102122836  
PATENTS ONLYDEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney Docket No.: 44481-0021-US

To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

## 1. Name of conveying party(ies):

COR Therapeutics, Inc.

6-10-02

Additional name(s) of conveying party(ies) attached?

Yes ☒ No

## 2. Name and address of receiving party(ies):

Name: Millennium Pharmaceuticals, Inc.

Street Address: 75 Sidney Street

City: Cambridge State: MA

Country: US Zip: 02139

## 3. Nature of conveyance:

☐ Assignment ☒ Merger  
☐ Security Agreement ☐ Change of Name  
Other \_\_\_\_\_

Additional name(s) &amp; address(es) attached?

Yes ☒ No

Execution Date(s): February 12, 2002

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s): 07/808,329

B. Patent No.(s)

Additional numbers attached: ☒ Yes ☐ No See attached Schedule B.

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael S. Tuscan, Ph.D.  
Internal Address: Customer No. 009629  
Morgan, Lewis & Bockius LLPStreet Address: 1111 Pennsylvania Ave., NW  
City: Washington State: D.C. Zip: 20004

6. Total number of applications and patents involved: 61

7. Total fee (37 C.F.R. §3.41): \$2440.00

☐ Enclosed☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

## 9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan, Ph.D., Reg. No. 43,210

Name of Person Signing

Signature

Date

6/13/2002 DBYRNE 00000040 500310 07808329

PT 101581 2440.00 CH

Total number of pages including cover sheet, attachments and documents: 8

Schedule B, U.S. applications

Application No.	Filing Date	Title	Ref. No.
07/808,329	1991-12-16	Antithrombosis agents	44481-5002-01
08/477,133	1995-06-07	Agents affecting thrombosis and hemostasis	44481-5002-06
09/362,207	1999-07-28	Agents affecting thrombosis and hemostasis	44481-5002-14
09/671,346	2000-09-27	Agents affecting thrombosis and hemostasis	44481-5002-15
07/854,109	1992-03-20	Glycosylation-mediated inhibition of Factor X	44481-5004
08/475,262	1995-06-07	Glycosylation-mediated inhibition of Factor X	44481-5004-02
09/621,004	2000-07-20	Glycosylation-mediated inhibition of Factor X	44481-5004-04
08/390,301	1995-01-25	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-01
08/474,414	1995-06-07	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-02
08/486,673	1995-06-07	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-06
10/127,691	2002-04-23	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-09
09/035,135	1998-03-05	Process for production of inhibited forms of activated blood factors	44481-5007-04
09/801,089	2001-03-08	Modulation of integrin-mediated signal transduction	44481-5008-02
09/410,738	1999-10-01	Methods of screening for compounds that interact with human P <sub>2U2</sub> purinergic receptor	44481-5010-02
09/947,922	2001-09-07	Methods of screening for compounds that interact with human P <sub>2U2</sub> purinergic receptor	44481-5010-03
07/801,795	1991-12-02	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017
08/253,440	1994-06-07	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017-01
09/419,076	1999-10-15	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017-04
09/585,410	2000-06-02	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017-05
08/089,455	1993-07-09	Platelet glycoprotein V gene and uses	44481-5018
08/884,571	1997-06-27	Platelet glycoprotein V gene and uses	44481-5018-03
09/560,814	2000-04-28	Platelet glycoprotein V gene and uses	44481-5018-04

Schedule B, U.S. applications

Application No.	Filing Dat	Title	Ref. No.
09/991,888	2001-11-26	Identification of Bap-1, a protein that binds to integrin and is Involved in integrin-mediated signal transduction	44481-5025-03
09/473,716	1999-12-29	Polynucleotides encoding a type V adenylyl cyclase	44481-5027-01
09/474,076	1999-12-29	Cloning and characterization of a human adenylyl cyclase	44481-5028-01
10/071,223	2002-02-11	Cloning and characterization of a human adenylyl cyclase	44481-5029-02
08/975,653	1997-11-21	Modulation of interactions between myosin and integrins	44481-5039-01
09/673,302	2001-03-23	Transgenic mammals expressing mutant GP IIIa	44481-5043
09/775,803	2001-02-05	Transgenic animals having a modified glycoprotein V gene	44481-5044
09/745,842	2000-12-26	P <sub>2</sub> Y <sub>12</sub> receptor	44481-5053
08/948,672	1997-10-10	Selective Factor Xa inhibitors	44481-5012-01
09/500,231	2000-02-08	Selective Factor Xa inhibitors	44481-5015-02
09/664,535	2000-09-18	Benzamides and related inhibitors of Factor Xa	44481-5061-99
09/663,420	2000-09-15	Benzamides and related inhibitors of Factor Xa	44481-5061
10/126,976	2002-04-22	Benzamides and related inhibitors of Factor Xa	44481-5061-02
09/226,103	1999-01-07	Platelet ADP receptor inhibitors	44481-5042
09/501,370	2000-02-11	Alkenyl and alkynyl compounds as inhibitors of Factor Xa	44481-5045
09/501,371	2000-02-11	Inhibitors of Factor Xa	44481-5045-01
09/576,637	2000-05-24	Inhibitors of Factor Xa	44481-5046
09/576,634	2000-05-24	Inhibitors of Factor Xa	44481-5046-01
09/576,638	2000-05-24	Inhibitors of Factor Xa	44481-5047
09/577,131	2000-05-24	Inhibitors of Factor Xa	44481-5047-01
09/576,635	2000-05-24	Inhibitors of Factor Xa	44481-5048
09/576,636	2000-05-24	Inhibitors of Factor Xa	44481-5048-01
09/576,633	2000-05-24	Inhibitors of Factor Xa	44481-5049
09/576,632	2000-05-24	Inhibitors of Factor Xa	44481-5049-01
09/577,154	2000-05-24	Inhibitors of Factor Xa	44481-5049-02
09/636,804	2000-08-10	Inhibitors of Factor Xa	44481-5050



Schedule B, U.S. applications

Application No.	Filing Date	Title	Ref. No.
09/662,807	2000-09-15	Inhibitors of Factor Xa	44481-5051
09/794,214	2001-02-28	Inhibitors of Factor Xa	44481-5051-01
09/714,532	2000-11-17	$\beta$ -Amino acid-, aspartic acid- and diaminopropionic -based inhibitors of Factor Xa	44481-5052
09/773,383	2001-02-01	Indole and benzimidazole inhibitors of Factor Xa	44481-5055
09/773,372	2001-02-01	Indalone and benzimidazolone inhibitors of Factor Xa	44481-5056
09/773,373	2001-02-01	3,4-Dihydro-2h-benzo[1,4]oxazine inhibitors of Factor Xa	44481-5057
09/773,374	2001-02-01	2-[1H]-Quinolone and 2-[1H]-quinoxalone inhibitors of Factor Xa	44481-5058
09/773,375	2001-02-01	Bivalent phenylene inhibitors of Factor Xa	44481-5059
09/775,812	2001-02-05	Platelet ADP receptor inhibitors	44481-5060
09/920,325	2001-08-02	Platelet ADP receptor inhibitors	44481-5060-01
09/816,782	2001-03-26	Oxindole inhibitors of Factor Xa	44481-5062
09/816,771	2001-03-26	Isoquinolone inhibitors of Factor Xa	44481-5063
09/816,781	2001-03-26	Bicyclic sulfonyl amino inhibitors of Factor Xa	44481-5064

# Delaware

PAGE 1

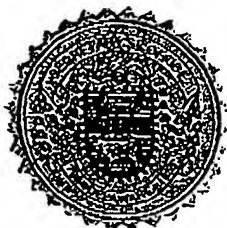
*The First State.*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"COR THERAPEUTICS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "MILLENNIUM PHARMACEUTICALS, INC." UNDER THE NAME OF "MILLENNIUM PHARMACEUTICALS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF FEBRUARY, A.D. 2002, AT 6 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

2322355 8100M

AUTHENTICATION: 1610075

020093846

DATE- 02-12-02

**CERTIFICATE OF OWNERSHIP AND MERGER**

**MERGING**

**COR THERAPEUTICS, INC.**  
(a Delaware corporation)

**INTO**

**MILLENNIUM PHARMACEUTICALS, INC.**  
(a Delaware corporation)

Millennium Pharmaceuticals, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify:

**FIRST:** That the Corporation was incorporated on the 13th day of January, 1993, pursuant to the General Corporation Law of the State of Delaware.

**SECOND:** That the Corporation owns all of the outstanding shares of each class of the stock of COR Therapeutics, Inc., a corporation incorporated on the 4th day of February, 1988 pursuant to the General Corporation Law of the State of Delaware.

**THIRD:** That the Board of Directors of the Corporation, by written action in lieu of a meeting dated the 4th day of February, 2002, duly adopted the following resolutions:

RESOLVED: That, pursuant to Section 253 of the Delaware General Corporation Law, the Corporation is hereby authorized to merge COR Therapeutics, Inc., a Delaware corporation which is a wholly owned subsidiary of the Corporation, into the Corporation;

RESOLVED: That the President and Secretary of the Corporation be, and each of them hereby is, authorized to execute a Certificate of Ownership and Merger with respect to the merger of COR Therapeutics, Inc. into the Corporation, cause the same to be filed with the Secretary of State of the State of Delaware and take all such other actions and to execute all such other instruments and agreements as the officer or officers so acting may deem appropriate to effect such merger;

RESOLVED: That the merger of COR Therapeutics, Inc. into the Corporation shall be effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this Certificate to be signed by its authorized officer this 12th day of February, 2002.

MILLENNIUM  
PHARMACEUTICALS, INC.

By: /s/ Mark J. Levin  
Title: President